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AGENDA Meeting No. 42

Research, Development and Production Review Board Attack

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2 March 1955

Room 2053 "I" Bldg. - 1400 Hours

## I. Old Business:

- 1. Review and Approval of Minutes of Meeting #41.
- 2. Report by Engineering Division of Significant Changes in Projects' Status.
- 3. Proposal by the Engineering Division in regard to a 500-Watt Transmitter.
- 4. Report on Preparation of Letter to Chief, FI, regarding Priorities on Automatic Keying Device.
- 5. Discussion by Operations and Training Division of Agency Requirements for the AN/PRR-5 Receiver.

## II. New Business:

- 1. Discussion by Operations and Training Division regarding Engineering Development of a Mechanical Filter Switch Kit for the SP-600 Receiver.
- 2. Report by Engineering Division on the Use of Standard Telephone Dials for the Keying of RS-1, 5, and 6 Transmitters.
- 3. Discussion of Items of Development Brought Up at R&D Ideas and Requirements Panel.

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## S-E-C-R-E-T Research, Development and Production Review Board Ideas and Requirements Panel

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II.	The	following items we	re discussed:			
	cou]	1. OC-O&T stated the RS-9 unit emplo a transistorized d be modulated with proposal.	oying telephone tone oscillator	dial as a l	teyer. It is	s their though
			<u> </u>			
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<b>j</b>	the	er that FM be utilized for AM modulation present time there type of system. I	on. After some did not seem t	discussion o be suffici	the Panel fe	elt that at
<u>.</u>	the	present time there	on. After some did not seem t	discussion o be suffici	the Panel fe	elt that at
<b>5</b>	the	present time there	on. After some did not seem t	discussion o be suffici	the Panel fe	elt that at
<u>,</u>	the	present time there	on. After some did not seem t	discussion o be suffici	the Panel fe	elt that at
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	the	present time there	on. After some did not seem t	discussion o be suffici	the Panel fe	elt that at
	the	present time there type of system. I	on. After some did not seem t	discussion o be suffici or further s	the Panel feent advantage tudy by OC-C	elt that at ge to utilize O&T.

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- 5. The OC-S representative queried whether the Laboratory could provide some support to them in the way of developing a form for molding pads. It was OC-E's opinion that the Laboratory could handle this, and if OC-S would request same together with technical information regarding it, the Laboratory could undertake this project.
- III. The meeting adjourned at 1645 hours. The next meeting of the Panel will be held at 1400 hours on 16 March 1955.

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Distribution:

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REAPRE Members and Those in Attendance RED Lab RED External Projects

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		MINUTES	<u>.</u> .
		Research, Development and Production Review Board	
1	the state of the s		• * *
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- 1	<u></u>	Meeting #12 of the Research, Development and Produc	etion Berriew
	4.	meeting #12 of the nessearch, beveropment and from	, o z o z o v z o v
		Board was held in the OC Conference Room at 1400 ho	Jan S On
1		2 March 1955. The following persons were in attend	muce:
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		Wilson America Them T. Ald Ducinesco	+ (A)
	II.	Under Agenda Item I, Old Business:	
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¥ .		1. The minutes of Meeting #+1 were approved.	
			<u> </u>
		2. Report of Significant Changes in Projects	'Status.
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23/(1	C-0&T	Present field tests have been completed a	s of 28 February.
	ACTION	Transmissions were made from 7 locations. Quality	of received
	VOTTOU	messages was excellent throughout the tests. Eval	uation of the
		complete test data will not be completed for appro	vimately a
		Complete test made with not be combined for white	ATTION OF THE PARTY OF THE PART
		month; however, only minor difficulties and breakd	OMID MAIG AV-
		perienced and the equipment itself and the tests a	re considered
:		to be highly successful.	
ř .			
		Members of the Strategic Air Command have requeste	d that this
•		Agency consider joint participation in tests to be	conducted
25X1			Whey have also
20/(1		from as soon as possible.	rith than in
		requested that members of this Agency get together	MICH CHEM IN
25X1	. 14	a joint meeting to be held within the next month t	o discuss future
23×1		plans for the program and the results of the	e tests. SAC
į		was advised of the previous security agreements an	id was also told
-		that there was a good possibility of the signals b	eing picked up
		in Soviet areas from those locations.	-
		IN DOATER STAYS ILOW CHORE ICOSCIONS.	
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	•	A. Carrier and Car	

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	60-S	There was considerable discussion by the Board members	as to
	and	the wanticohility of conducting these tests at the pre-	sent
25X1	SPD	time. It was generally felt that nothing new could be about propagation under econditions, although it	Vas
1. · · · · · · · · · · · · · · · · · · ·	ACTION	screed that actual tests might be beneficial. It was for	elt that
		there was sufficient danger of signals radiating to Sov.	186
<b></b>		controlled areas that checks should be made to determine fact. An Ad Hoc committee comprised of representatives	of the
		orm and Commity Division was appointed to investi	gete all
		aspects of these proposed tests in order that the Direct	tor might
		be properly advised.	
	T-90-D0	Quadricode: The Quadricode tests are proposed to start	during the
	ACTION	Trek of 7 Merch if the equipment is completed; an alter	Date test
05V4		period would begin on 14 March. R&D representative will stationed at the base at the plant whill	e the field
25X1 25X1		party consisting of	
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	or in the second of the second		
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1.,		The question was raised by the O&T Division as to the	risdom of
25X1	•	using the same frequencies in the Quadricode tests as to during the recent tests. The Engineering Division	vere useu lon re-
1		that difficulty had been experienced in obtaining	ng frequencies
		and that there were colected as a last resort. The MI	THERETAIN
	• State of the state of the sta	Division requested that a mechanism be established when could more readily obtain frequencies which could be up	tena me
10 mm 1 m		auch as these. The OMF Division was charged with the	TIIAGROT-
		gation of possibility of obtaining frequencies for Age	day mag.
25X1		men As Hop committee for the Investigation was	STRO CHET.Reg
05)/4		with investigating general aspects of Quadricode tests particularly the operation of Quadricode on the same f	requencies
25X1		as those of	-
1	* *	_	. 25
;	QC-E	RS-6A Modifications: A report has been received from that the modifications for the 1,000 RS-6A's cannot be	made in
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well that we would not achieve the improved reliability which we desired inasmuch as the necessary rework would introduce a certain amount of unreliability in itself. The Engineering Division agrees with conclusion and accordingly informed the O&T Division of this fact. coordinated this matter for them and agreed that the modifications should not be made. Spare parts have been requisitioned for the two types of RS-6A's in the ratio of 1 to 12.

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Considerable discussion followed as to the merit of differentiating between the two types of RS-6A sets by the addition of new nomenclature for the modified version. It was generally felt that this was bad practice since from phychological standpoint all users would naturally tend to specify the later model set. The Board therefore agreed that no distinction should be made. The Engineering Division was charged with the responsibility of giving general notice to the field informing them of the two types of sets and advising them of the logistics activity required in the stocking and issuance of two types of spare parts.

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oc-oat and oc-e action Numerous reports have been received from the field stating difficulty encountered in sealing. A complete technique is being developed and full instructions are expected to be pouched within the next 10 days. It is our intention to supply special heat sealing equipment to the field.

The O&T Division stated that they now have cognizance for burial tests and had investigated the utilization of as a means of achieving test conditions. They indicated extreme interest in obtaining samples of all burial materials as they are received in order that they might include them in their test programs. They

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S-E-C-E-R-T 25X1 also requested that Engineering Division furnish to them all back files of tests which were conducted by the Engineering Division. 25X1 25X1 officials and Following the meeting between the 00-0&T rejected in its entirety 25X1 representatives of the R&D Branch ACTION the design of the RS-13 transmitter and initiated the development of a completely new unit. This re-design item is approximately 2 X 8 X 10 inches in size with the plug-in coil on the top face. It is expected that in the remaining 7 units the physical size of the transmitter will be reduced to approximately half of this first model. The circuitry is much more stable and satisfactory in operation than either the original 25X1 25X1 squipment and the previous transmitter produced by The output of this transmitter is 30 watts and appears to be free of harmonics or other spurious responses, and there is no evidence of self-oscillation in any of the stages. Despite the increase in physical size, there is no change in the basic pack-25X1 aging arrangement using 25X1 states that the problems of re-designing this new transmitter were of greater magnitude than originally estimated, which is requiring more time than earlier thought. They are presently working 7 days a week, 15 hours a day, and expect to have a non-working model ready for showing on 3 March, and a working model on 7 March. 25X1 present Members of the Board felt that the lack of 25X1 set should be coordinated with the in our version of the SR Division to insure that this will not affect proposed operational use of this set. The O&T Division was charged with this Hon responsibility. 3. Proposal by the Engineering Division in Regard to a 500-OC-0&T Watt Transmitter: The proposal from the Engineering Division that ACTION 40 HT-4H transmitters be procured at this time was reviewed. After considerable discussion, it was decided that the procurement of HT-4H's should be held to a minimum consistent with Agency immediate needs and that therefore 25 transmitters should be procured rather than the 40 recommended in the proposal by the Engineering Division. The allocation of these 25 transmitters would be made by the

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Operations & Training Division when they are received.

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The Board further decided that it was very important that a substitute transmitter for the HT-4 be selected at an early date and therefore approved the immediate release of the specifications for a new transmitter.

4. Report on Preparation of Letter to Chief, FI, Regarding Priorities on Automatic Keying Device: It was reported that a letter was in process of preparation to the Chief, FI, thanking him for his interest and informing him that in general a change of priorities was not necessary since the programs in which he was interested were proceeding as though they were all Priority No. I.

oc-oat and oc-e action 5. <u>Bisgussion</u> by Operations and Training Division of Agency Requirements for the AN/PRR-5 Receiver: The OMT Division stated that they would like to procure the five PRR-5's which the

had offered to us but felt that the cost of these pilot models should be investigated prior to actual procurement. They further stated that they desired to table statements of future requirements for this set until a later date.

OC-E and OC-OM ACTION

6. GN-43/V Hand Generator: The CET Division reported that they had received information from the Engineering Division that the GN-43/V Hand Generator would be undergoing earlier production than was previously anticipated. The Board continued in its feeling that the high quantity of GN-58's in stock would prevent us from precuring large quantities of the GN-43/V, but it was now felt that since the Signal Corp was planning for production that we should procure a small quantity for special operational uses.

III.

Under Agenda Item II, New Business:

OC-E ACTION 1. Discussion by O&T Division Regarding Engineering Development of a Mechanical Filter Switch Kit for the SP-600 Receiver: The O&T Division stated that the purpose of this item on the Agenda was to establish priorities for this mechanical filter switch kit in order that as an objective they might get kits in the field within a period of one year. It was decided that the Engineering Division should investigate to determine whether or 25X1

were making such kits or whether they would be willing to undertake such a project at our request. This is to be
reported to the Board at the next meeting.

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S-E-C-R-E-T 25X1 2. Report by OC-E on the Use of Standard Telephone Dials OC-0&T for the Keying of RS-1, 5, and 6 Transmitters: The Engineering ACTION Division reported that tests had been conducted with 3 types of dials and that all keyed the RS-1, 5, and 6 transmitters equally well. The O&T Division was directed to develop procedures and techniques for operation of this type of keying system. 3. Discussion of Items of Development Brought Up at R&D Ideas and Requirements Panel: There was no discussion on this matter. 25X1 4. Discussion on AN/TRC-37 with OC-E 25X1 The Engineering Division pointed out ACTION 25X1 had recently contacted them to request perthat mission to change the AN/TRO-37 from 6 volt to 12 volt operation. He also requested permission to change the frequency range to 4 to 16 mes and further stated that they were no longer considering the manufacture of the 100-watt amplifier originally proposed. The Engineering Division stated that all of this seemed to 25X1 indicate that the Agency would be a large user of the AN/TRC-37 and requested the Board's opinion as to anticipated Agency application of the set. It was the feeling of the Board that while we had general interest in the set, we did not have specific interest and should be so informed. Strategic Air Command Requirements for the RS-11: The 00-E Engineering Division reported that SAC had indicated that they ACTION would be a high volume user of the RS-11 but required that the frequency range be shifted from its present 3 to 12 mcs range to 4 to 16 mes range. They indicated that this range was not yet firmly established but would be so at the conclusion of a propagation study being made for them by the Bureau of Standards. The Board concurred with the Engineering Division's recommendation that we still desired our sets to retain the presently established frequency range, but that if SAC desired we would investigate the possibility of making a special set for them having the required frequency 4 to 16 mcs range. The Board adjourned at 1658 hours. The next regular meeting of IV. the Board will be held on 6 April 1955 at 1400 hours. The Ideas and Requirements Panel will meet on 13 April 1955 at 1400 hours. 25X1 Distribution: 25X1 Acting Members and those in attendance listed in Paragraph I R&D Internal Projects

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R&D External Projects (2)

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